

HOMELAND  
DELAWARE DEPARTMENT OF SAFETY AND HOMELAND SECURITY

# AVIAN AND PANDEMIC FLU:

*The Delaware Experience*  
*The Delaware Experience*

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SECURITY

# AVIAN VS. PANDEMIC INFLUENZA

*Avian Influenza*: Current strain of H5N1 influenza virus primarily affecting migratory birds, domestic poultry, and humans who have direct contact with an infected animal.

*Pandemic Influenza*: Strain of highly pathogenic strain of H5N1 virus which has mutated to a form enabling its transmission from human to human.

# AVIAN INFLUENZA

- ❑ Delaware's Poultry Industry Produces 240 Million Chickens a Year.
- ❑ On a Given Day, There are 110 Million Chickens on the Delmarva Peninsula.
- ❑ Poultry Industry in Delaware Represents nearly **70%** of Total Annual Farm Cash Receipts

# AVIAN INFLUENZA

## DELAWARE'S POULTRY INDUSTRY

Lead Agency  
Dept. of Agriculture

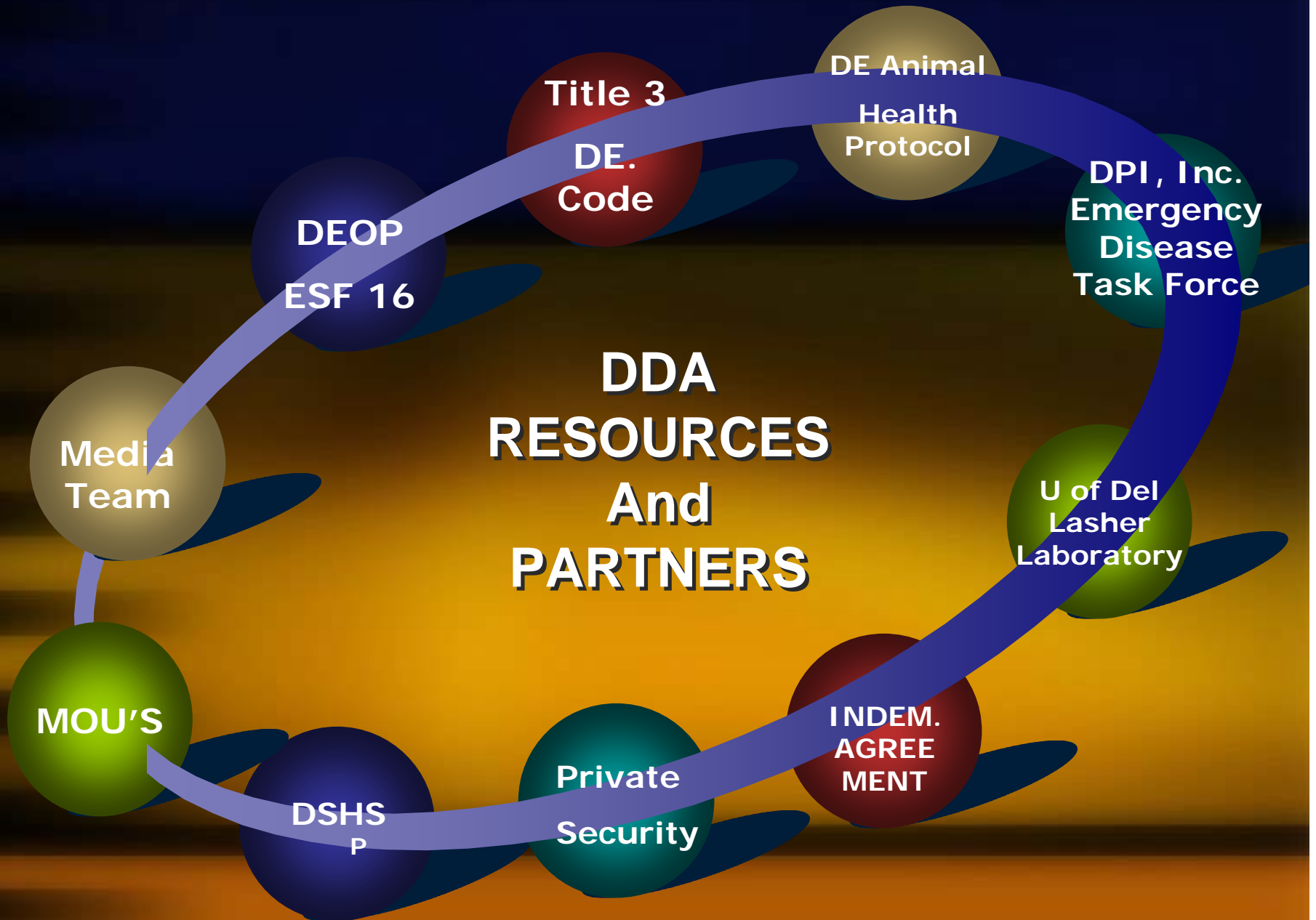


Coordination and Support:  
Department of Safety and  
Homeland Security &  
Delaware State Police

# AVIAN FLU OUTBREAK IN DELAWARE

- ❑ Avian Flu Outbreak Confirmed on an Independent Grower's Poultry Farm in Sussex County, Delaware on February 5, 2004.
- ❑ Second Outbreak on Another Commercial Poultry Farm in Delaware on February 9, 2004.

# DDA RESOURCES And PARTNERS



DS



# LESSONS LEARNED

- ❑ Incident Command System Clearly Delineated.
- ❑ Lines of Communication Open and Clear
- ❑ Transparency with Public and Media
- ❑ Proclamations and Orders with Penalties Necessary to Enforce Bans and Restrictions.
- ❑ Real partnerships, along with cooperation and coordination, necessary for rapid and efficient response.
- ❑ Education and Outreach to Growers and Public
- ❑ “Depopulation Techniques”

# Rates of Illness and Death Scenarios for Delaware:

## How Much History Will Repeat?

### Assumptions:

- ☐ **15% Attack Rate – 120,000 sick, 36,000 dead (30% Mortality)**
- ☐ **35% Attack Rate – 280,000 sick, 140,000 dead (50% Mortality)**
- ☐ **5% Attack Rate – 40,000 sick, 8,000 dead (20% Mortality)**



STATE OF DELAWARE

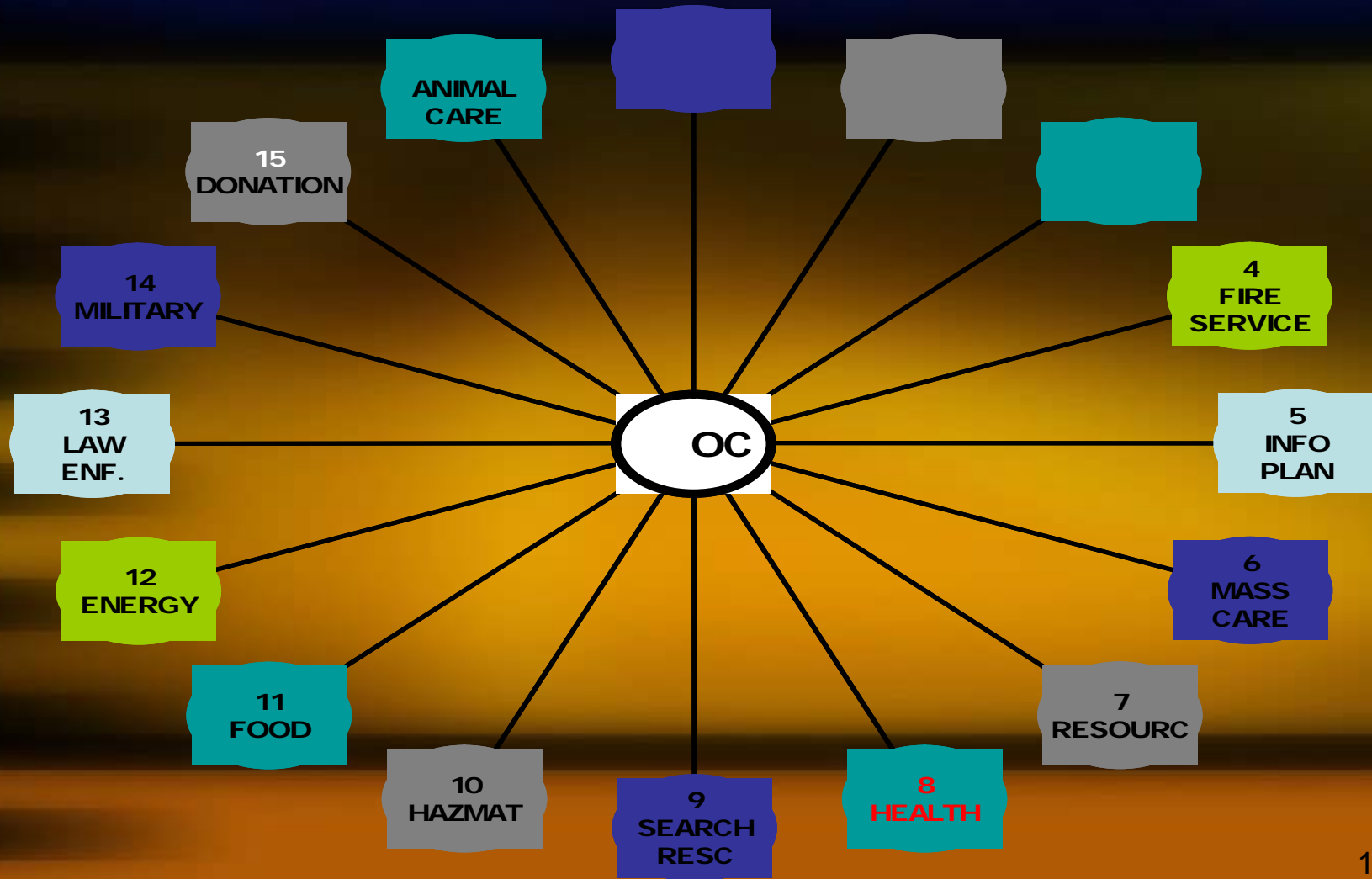
**“RESPONSE AND  
RESPONSIBILITY”**

# DELAWARE EMERGENCY OPERATIONS PLAN

## **Incorporates Key Organizational Systems:**

- ❑ Incident Command System (ICS)
- ❑ Multi-Agency Coordination Systems
- ❑ Public Information Systems

# Emergency Operations Center: Support Functions



# *Strong Coordinated Partnerships* between Federal, State, and Local Representatives

- ❑ Dept. of Safety and Homeland Security
- ❑ Dept. of Health and Social Services
- ❑ Delaware Dept. of Transportation
- ❑ Dept. of Corrections
- ❑ Div. of Public Health
- ❑ DEMA
- ❑ DSP

- ❑ Volunteer Fire Services
- ❑ Emergency Management (State and Local)
- ❑ Local Law Enforcement
- ❑ Hospitals/Nursing Homes
- ❑ Funeral Homes
- ❑ Private Businesses
- ❑ Delaware SPCA
- ❑ Delaware National Guard
- ❑ Dover Air Force Base

# RESOURCES

- ❑ Memoranda of Understanding on Federal, State and Local Levels
- ❑ Emergency Management Assistance Compact
- ❑ Intrastate Mutual Aid Compact
- ❑ Emergency Health Powers Act
- ❑ Delaware Information Analysis Center (DIAC)
- ❑ Joint Information Center (JIC)
- ❑ 800 MHz
- ❑ Mobile Command Center
- ❑ Helicopter Transport

# Governor Directs Pan Flu Planning Among Agencies

**September 2005 – Governor Ruth Ann Minner directed these agencies:**

- ❑ Department of Safety and Homeland Security,**
- ❑ Department of Agriculture and**
- ❑ Department of Health and Social Services**

**to establish a cabinet-level working group to plan for and monitor the threat of a pandemic in Delaware.**



**Result:**

## **Delaware Pandemic Influenza Plan**

- ❑ Comprehensive plan addressing a potential outbreak**
- ❑ Identifies response roles**
- ❑ Includes surveillance mechanisms to identify start of a pandemic, practices for limiting spread and treating citizens**
- ❑ Gov. Minner's '07 GRB proposes adding \$100,000 to the University of Delaware's avian flu research program & \$1.4 Million to stockpile antivirals**

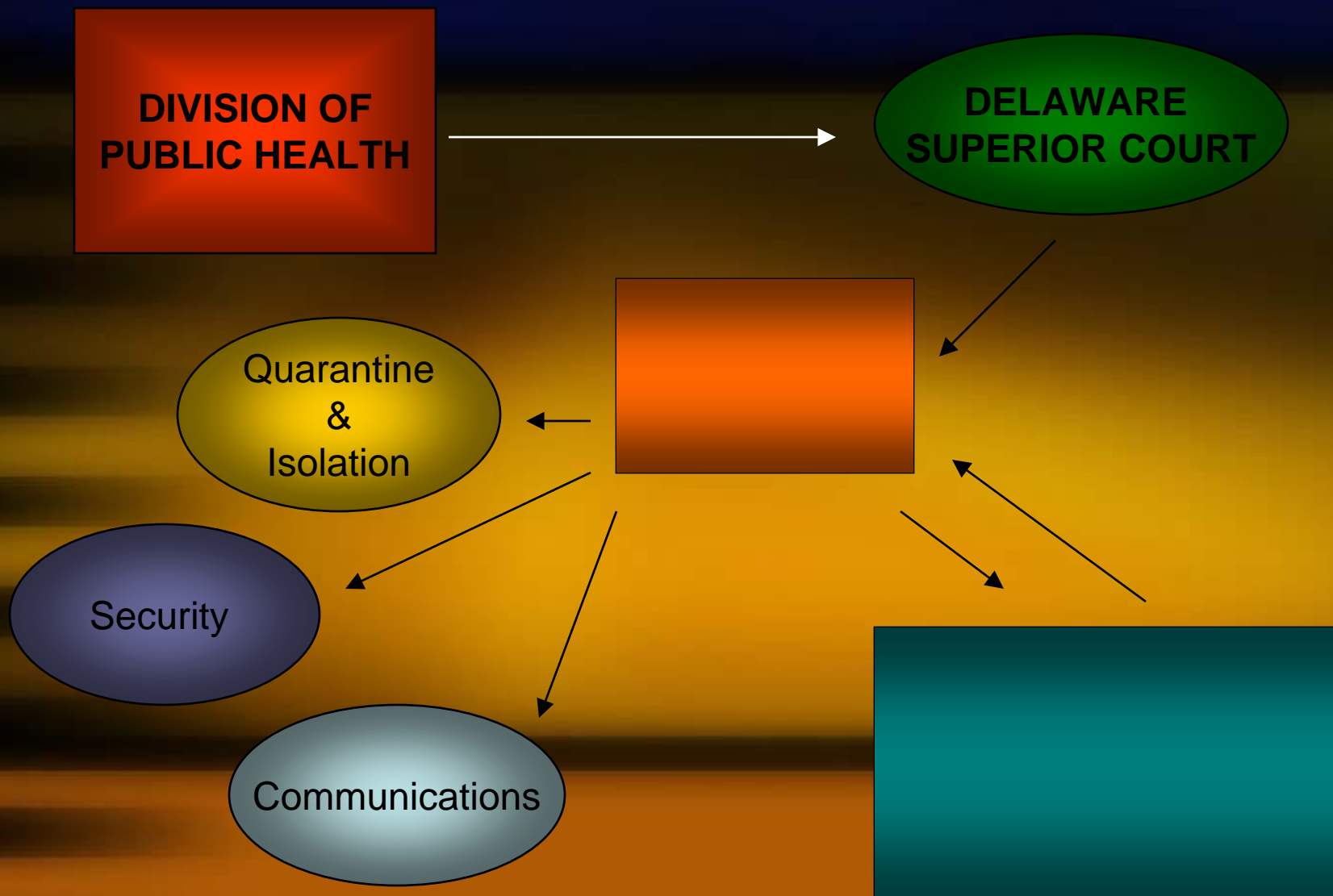
# Inter-pandemic Preparation



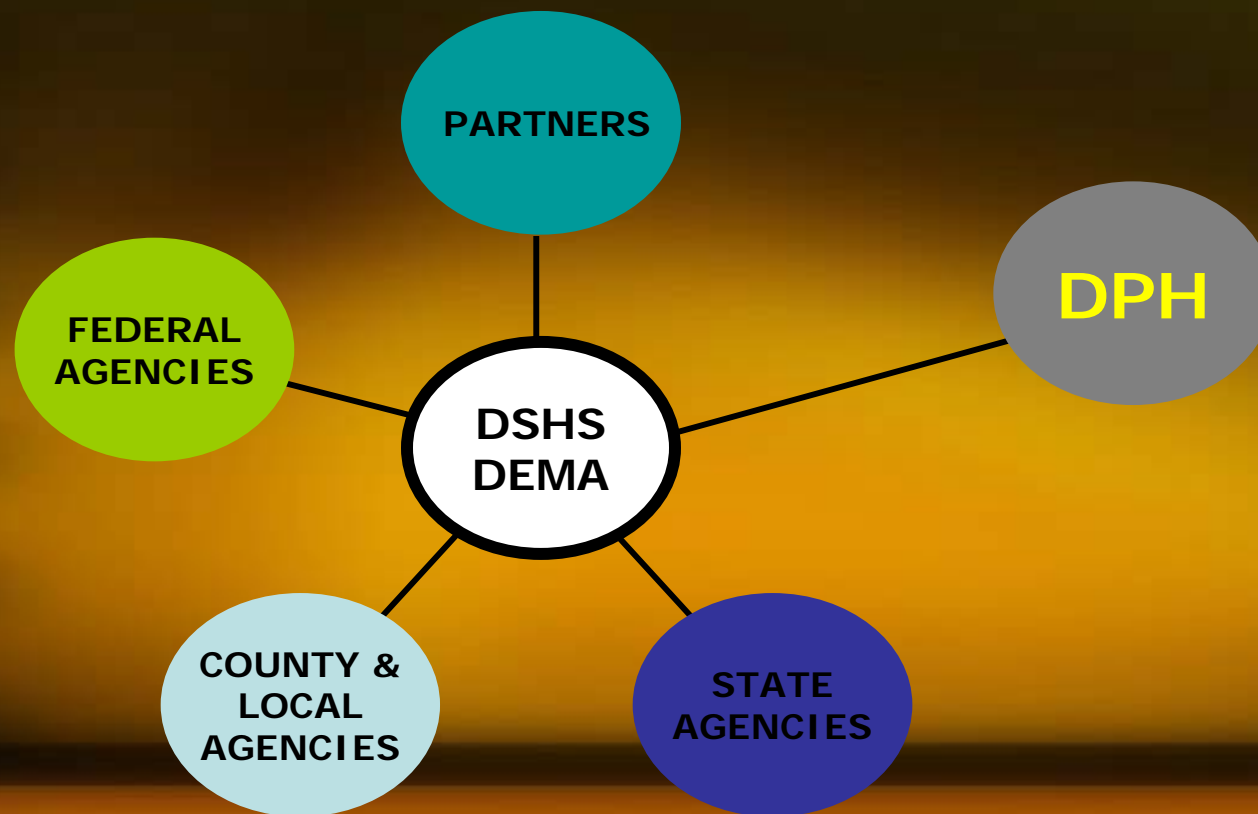
# Inter-pandemic Coordination



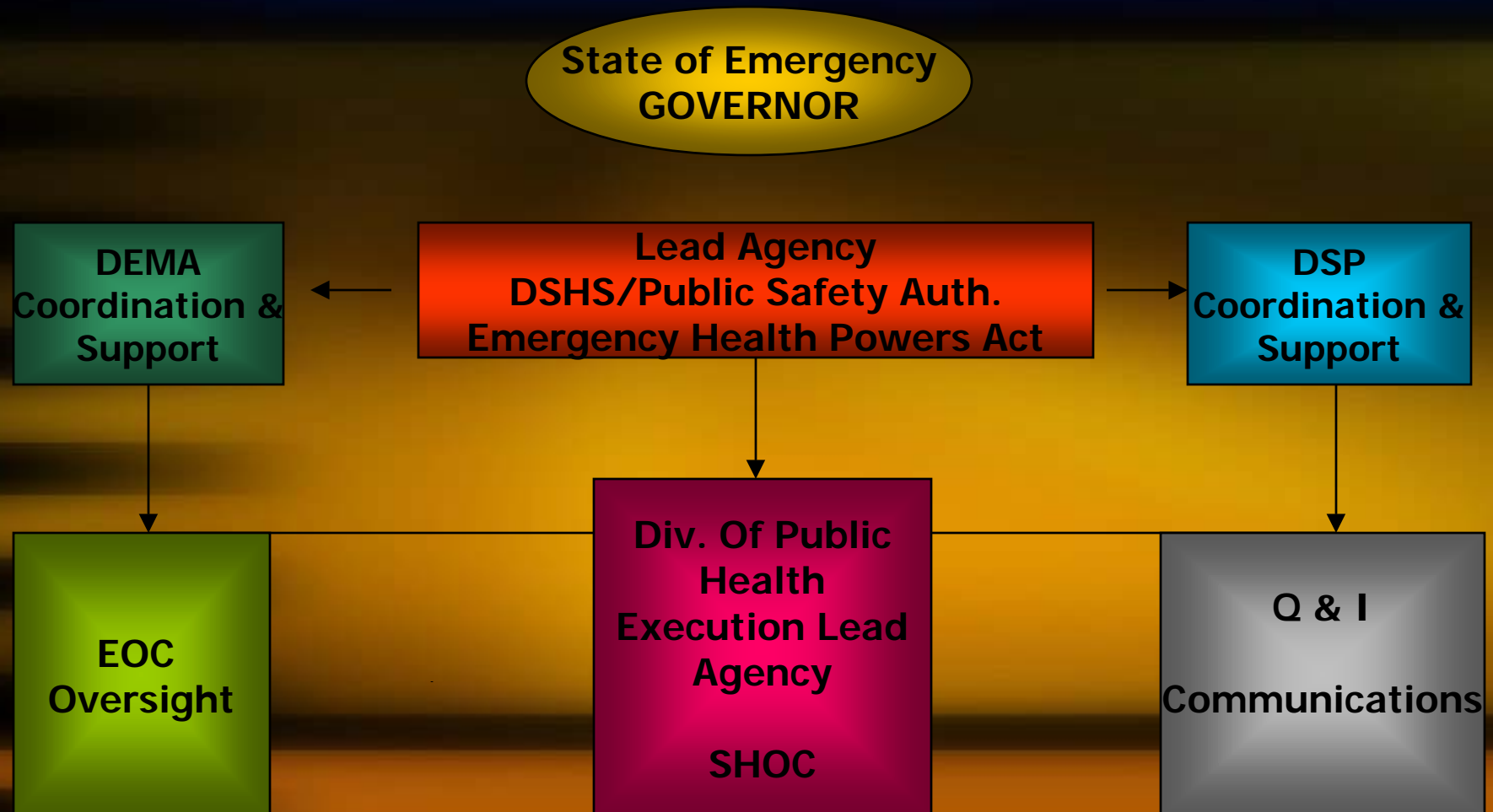
# PRE-STATE OF EMERGENCY



# State of Emergency Declaration

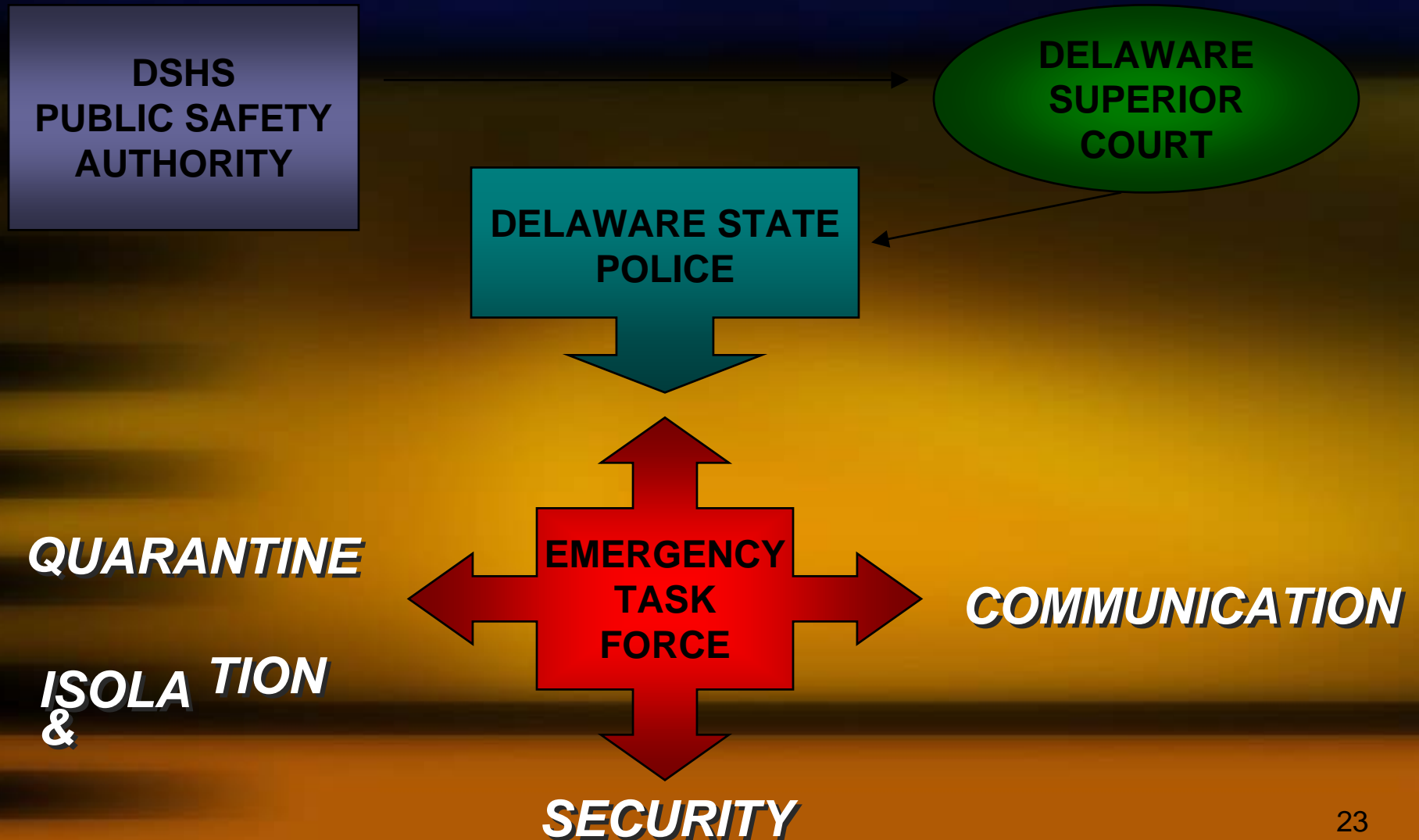


# STATE OF EMERGENCY





# STATE OF EMERGENCY



# Pandemic Influenza Goals: Saving Lives

- ❑ Slow spread, decrease illness and death, buy time
  - Antiviral treatment and isolation for people with illness
  - Quarantine for those exposed
  - Social distancing
  - Vaccine when available
  - Local decisions



# Pandemic Influenza Goals: Communicating Clearly

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- ☐ **Prepare people with information**
- ☐ **Encourage action steps to prepare now**
- ☐ **Provide updates when new information emerges**
- ☐ **Use trusted messengers**
- ☐ **Coordinate to ensure consistent messages**
- ☐ **Address rumors and inaccuracies**
- ☐ **Maintain transparency with media and public**

# RISS/ATIX

- ❑ Regional Information Sharing System

- ❑ Six Regions in U.S.

- Automated Trusted Information Exchange
  - 13 Sectors: Dave Lewis, BJA Coordinator
- Delaware has over 100 private sector partners

# References

- ❑ The International Association of Chief's of Police:  
[www.thepolicechiefmagazine.org](http://www.thepolicechiefmagazine.org)
- ❑ *2003 SARS Outbreak: The Response Of The Toronto Police Service*, Chief Julian Fantino, Ret.  
April, 2005
- ❑ *The Pandemic Influenza Plan: Implications For Local Law Enforcement*, Lee Colwell, FBI Ret.  
January, 2006

# References Continued

- ❑ *Quarantines: The Law Enforcement Role*, Charles Friend, February 2006
- ❑ *Pandemic INFLUENZA and Bird FLU: The State of Delaware State and Local Law Enforcement Preparedness*, David Mitchell, J.D. and Elizabeth Olsen, Esq. February, 2006



# Delaware “FLU” Plans

- ❑ Delaware Health & Social Services  
“Confused About Flu” Online Resource  
<http://www.dhss.delaware.gov/dhss/dph/confusedaboutflu.html>
- ❑ Flu, Avian Flu, Pandemic Flu and useful information guides
- ❑ Delaware Pandemic Influenza Plan

# QUESTIONS?



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## Red Cell Report

14 February 2006

### (U) Three Potential Scenarios for Weaponizing Avian Influenza

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